IN THE CLAIMS

Please amend the claims as follows:

1. (Cancelled)

2. (Previously Amended) An implantable cardiac therapy device as recited in claim 3, wherein the communication circuitry comprises an RF transceiver.

3. (Currently Amended) An implantable cardiac therapy device comprising:

cardiac therapy circuitry configured to perform at least one of (1) monitoring cardiac activity or (2) administering stimulation therapy;

communication circuitry adapted to transmit and receive communication signals via an antenna to enable high frequency communication; and

a casing to house both the cardiac therapy circuitry and the communication circuitry, while isolating the communication circuitry from the cardiac therapy circuitry,

wherein the casing comprises a first chamber to house the cardiac therapy circuitry; and

a second chamber to house the communication circuitry.

4. (Cancelled)

5. (Currently Amended) An implantable cardiac therapy device as recited in claim [[4]] 3, wherein the antenna is integrated into the casing.

6. (Currently Amended) An implantable cardiac therapy device as recited in claim [[4]] 3, wherein the casing has a header to which conductive leads can be connected, the antenna residing in the header of the casing.

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7. (Currently Amended) An implantable cardiac therapy device as recited in claim [[1]] 3, wherein the casing has a header to which conductive leads can be connected, and the communication circuitry comprises:

an RF transceiver to transmit and receive RF signals; and

a diplexer coupled to receive high-frequency signals and low-frequency signals from the leads and to split the high-frequency signals from the low-frequency signals, the diplexer passing the high-frequency signals to the RF transceiver and the low-frequency signals to the cardiac therapy circuitry.

8. (Currently Amended) An implantable cardiac therapy device comprising:

cardiac therapy circuitry configured to perform at least one of (1) monitoring cardiac activity or (2) administering stimulation therapy;

communication circuitry to enable high frequency communication; and

a casing to house both the cardiac therapy circuitry and the communication circuitry, while isolating the communication circuitry from the cardiac therapy circuitry, wherein the casing has a header to which conductive leads can be connected, and the communication circuitry comprises,

an RF transceiver to transmit and receive RF signals via an antenna; and

a diplexer coupled to receive high-frequency signals and low-frequency signals from the leads and to split the high-frequency signals from the low-frequency signals, the diplexer passing the high-frequency signals to the RF transceiver and the low-frequency signals to the cardiac therapy circuitry and

wherein the casing comprises,

a first chamber to house the cardiac therapy circuitry;

a second chamber to house the RF transceiver and the diplexer; and

a filtered feed-through to pass low-frequency signals from the second chamber into the first chamber.

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9. (Previously Amended) A cardiac network system comprising:

the implantable cardiac therapy device as recited in claim 3; and

a computing network to link one or more computing systems to the implantable cardiac therapy device.

10. (Currently Amended) An implantable cardiac therapy device comprising:

an encasing constructed to define first and second chambers in frequency isolation from one another;

the first chamber housing first circuitry to handle low-frequency signals; and

the second chamber housing second circuitry to [[handle]] transmit and receive high-frequency signals via an antenna.

11. (Original) An implantable cardiac therapy device as recited in claim 10, wherein the first chamber is adjacent to the second chamber.

12. (Original) An implantable cardiac therapy device as recited in claim 10, wherein the second chamber is encompassed within the first chamber.

13. (Original) An implantable cardiac therapy device as recited in claim 10, wherein the encasing further comprises a header to which conductive leads can be connected, the second chamber being positioned adjacent to the header so that at least the high-frequency signals can be passed directly from the header to the second chamber.

14. (Original) An implantable cardiac therapy device as recited in claim 10, wherein the encasing further comprises a header to which conductive leads can be connected, the second chamber being located within the header.

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15. (Original) An implantable cardiac therapy device as recited in claim 10, further comprising a filtered feed-through to conduct the low-frequency signals from the first chamber to the second chamber while blocking the high-frequency signals.

16. (Original) An implantable cardiac therapy device as recited in claim 10, wherein the first circuitry comprises cardiac sensing and stimulation circuitry.

17. (Original) An implantable cardiac therapy device as recited in claim 10, wherein the second circuitry comprises an RF transceiver.

18. (Original) A cardiac network system comprising:
the implantable cardiac therapy device as recited in claim 10; and
a computing network to link one or more computing systems to the implantable cardiac therapy device.

19. (Currently Amended) An implantable cardiac therapy device comprising:

a first can to house cardiac therapy circuitry; and

a second can to house a high-frequency transceiver <u>adapted to transmit and receive high frequency signals via an antenna</u>; and

the first and second cans being configured to permit electrical communication between the high-frequency transceiver and the cardiac therapy circuitry while preventing high-frequency signals emanated in the second can from interfering with the cardiac therapy circuitry in the first can.

20. (Original) An implantable cardiac therapy device as recited in claim 19, wherein the first and second cans share one or more common walls.

21. (Original) An implantable cardiac therapy device as recited in claim 19, wherein one of the first and second cans encompasses the other of the first and second cans.

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22. (Original) An implantable cardiac therapy device as recited in claim 19, wherein the first and second cans are integrated as a single housing.

23. (Original) An implantable cardiac therapy device as recited in claim 19, further comprising a feed-through to pass data received by the high-frequency transceiver from the second can to the cardiac therapy circuitry in the first can.

24. (Original) An implantable cardiac therapy device as recited in claim 19, wherein the high-frequency signals are received by leads configured to be attached to a patient's heart, the implantable cardiac therapy device further comprising a circuit to separate the high-frequency signals from cardiac signals conducted by the leads.

25. (Cancelled)

26. (Original) A cardiac network system comprising:

the implantable cardiac therapy device as recited in claim 19; and

a computing network to link one or more computing systems to the implantable cardiac therapy device.

27-64. (Cancelled)

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